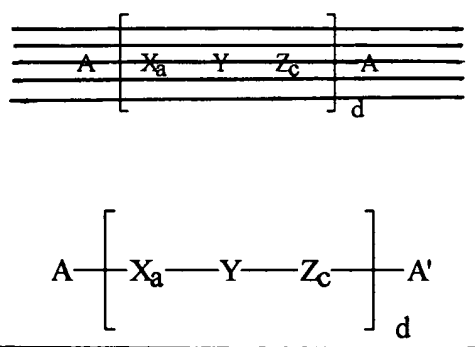


IN THE CLAIMS

Please delete all prior lists of claims in the application and insert the following list of claims:

1-3. (CANCELED)

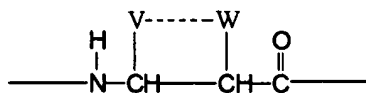
4. (CURRENTLY AMENDED) An isolated, unnatural polypeptide compound of formula:

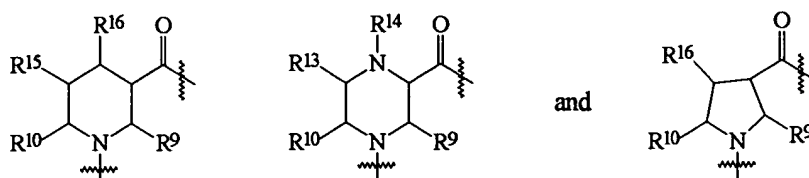
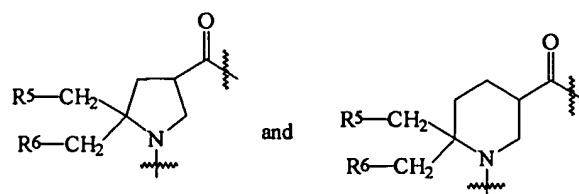


wherein:

each X and each Z is independently variable and is selected from the group consisting of α -amino acid residues, β -amino acid residues, and γ -amino acid residues, provided that at least one X or Z comprises an α -amino acid residue and at least another two of X or Z comprise two cyclically-constrained β -amino acid residues; and

wherein each cyclically-constrained β -amino acid residue is independently selected from the group consisting of:





wherein V and W are combined, together with the carbon atoms to which they are bonded, and independently define a substituted or unsubstituted, monocyclic or bicyclic C₃-C₁₀ cycloalkyl, cycloalkenyl or heterocyclic ring having one or more N, O or S atom(s) as the heteroatom(s);

the substituents on carbon atoms of the rings being independently selected from the group consisting of linear, branched, or cyclic C₁-C₆-alkyl, alkenyl, alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl, and the substituents listed above for V and W **when V and W are not combined**;

the substituents on nitrogen heteroatoms of the rings being independently selected from the group consisting of hydrogen, monocyclic or bicyclic C₁-C₁₀-alkyl, alkenyl, or alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl, -S(=O)₂-R¹⁷, -C(=O)-R¹⁷, -S(=O)₂-(CH₂)_{n+1}-R¹⁸, and -C(=O)-(CH₂)_n-R¹⁸, where n = 1 to 6;

wherein R¹⁷ is independently selected from the group consisting of hydrogen, monocyclic or bicyclic C₁-C₁₀-alkyl, alkenyl, or alkynyl; mono-

or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl; and

wherein R¹⁸ is independently selected from the group consisting of hydroxy, linear, branched, or cyclic C₁-C₆-alkyl, alkenyl, or alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl; mono- or bicyclic heteroaryl-C₁-C₆-alkyl; C₁-C₆-alkyloxy, aryloxy, heteroaryloxy, thio, C₁-C₆-alkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆-alkylsulfonyl, arylthio, arylsulfinyl, arylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, amino, mono- or di-C₁-C₆-alkylamino, mono- or diarylamino, mono- or diheteroarylamino, N-alkyl-N-arylamino, N-alkyl-N-heteroarylamino, N-aryl-N-heteroarylamino, aryl-C₁-C₆-alkylamino, carboxylic acid, carboxamide, mono- or di-C₁-C₆-alkylcarboxamide, mono- or diarylcarboxamide, mono- or diheteroarylcarboxamide, N-alkyl-N-arylcarboxamide, N-alkyl-N-heteroarylcarboxamide, N-aryl-N-heteroarylcarboxamide, sulfonic acid, sulfonamide, mono- or di-C₁-C₆-alkylsulfonamide, mono- or diarylsulfonamide, mono- or diheteroarylsulfonamide, N-alkyl-N-arylsulfonamide, N-alkyl-N-heteroarylsulfonamide, N-aryl-N-heteroarylsulfonamide, urea; mono- di- or tri-substituted urea, wherein the substituent(s) is selected from the group consisting of C₁-C₆-alkyl, aryl, heteroaryl; O-alkylurethane, O-arylurethane, and O-heteroarylurethane; and

wherein R⁵ and R⁶ are independently selected from the group consisting of hydrogen, hydroxy, linear, branched, or cyclic C₁-C₁₆-alkyl, alkenyl, or alkynyl; mono- or di- C₁-C₁₆ alkylamino; mono- or bicyclic aryl; mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₁₆-alkyl; mono- or bicyclic heteroaryl-C₁-C₁₆-alkyl; -(CH₂)₀₋₆-OR⁷,

$-(CH_2)_{0-6}-SR^7$, $-(CH_2)_{0-6}-S(=O)-CH_2-R^7$, $-(CH_2)_{0-6}-S(=O)_2-CH_2-R^7$, $-(CH_2)_{0-6}-NR^7R^7$, $-(CH_2)_{0-6}-NHC(=O)R^7$, $-(CH_2)_{0-6}-NHS(=O)_2-CH_2-R^7$,
 $-(CH_2)_{0-6}-C(=O)-OH$, $-(CH_2)_{0-6}-C(=O)-OR^7$, $-(CH_2)_{0-6}-C(=O)-NH_2$, $-(CH_2)_{0-6}-C(=O)-NHR^7$, $-(CH_2)_{0-6}-C(=O)-N(R^7)_2$, $-(CH_2)_{0-6}-O-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-S-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-S(=O)-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-S(=O)_2-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-NH-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-N-\{(CH_2)_{2-6}-R^8\}_2$, $-(CH_2)_{0-6}-NHC(=O)-(CH_2)_{2-6}-R^8$, and $-(CH_2)_{0-6}-NHS(=O)_2-(CH_2)_{2-6}-R^8$; wherein

R^7 is independently selected from the group consisting of hydrogen, C_1 - C_6 -alkyl, alkenyl, or alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl- C_1 - C_6 -alkyl, mono- or bicyclic heteroaryl- C_1 - C_6 -alkyl; and

R^8 is selected from the group consisting of hydroxy, C_1 - C_6 -alkyloxy, aryloxy, heteroaryloxy, thio, C_1 - C_6 -alkylthio, C_1 - C_6 -alkylsulfinyl, C_1 - C_6 -alkylsulfonyl, arylthio, arylsulfinyl, arylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, amino, mono- or di- C_1 - C_6 -alkylamino, mono- or diarylamino, mono- or diheteroarylamino, N-alkyl-N-aryl-amino, N-alkyl-N-heteroaryl-amino, N-aryl-N-heteroaryl-amino, aryl- C_1 - C_6 -alkylamino, carboxylic acid, carboxamide, mono- or di- C_1 - C_6 -alkylcarboxamide, mono- or diarylcarboxamide, mono- or diheteroarylcarboxamide, N-alkyl-N-arylcarboxamide, N-alkyl-N-heteroarylcarboxamide, N-aryl-N-heteroarylcarboxamide, sulfonic acid, sulfonamide, mono- or di- C_1 - C_6 -alkylsulfonamide, mono- or diarylsulfonamide, mono- or diheteroarylsulfonamide, N-alkyl-N-arylsulfonamide, N-alkyl-N-heteroarylsulfonamide, N-aryl-N-heteroarylsulfonamide, urea; mono- di- or tri-substituted urea, wherein the substituent(s) is selected from the group consisting of C_1 - C_6 -alkyl, aryl, heteroaryl; O-alkylurethane, O-arylurethane, and O-heteroarylurethane; and wherein R^9 , R^{10} , and R^{13} are independently selected from the group consisting of hydrogen, linear, branched, or cyclic C_1 - C_6 -alkyl, alkenyl, or alkynyl;

mono- or di- C₁-C₆ alkylamino, mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl, -(CH₂)₁₋₆-OR¹¹, -(CH₂)₁₋₆-SR¹¹, -(CH₂)₁₋₆-S(=O)-CH₂-R¹¹, -(CH₂)₁₋₆-S(=O)₂-CH₂-R¹¹, -(CH₂)₁₋₆-NR¹¹R¹¹, -(CH₂)₁₋₆-NHC(=O)R¹¹, -(CH₂)₁₋₆-NHS(=O)₂-CH₂-R¹¹, -(CH₂)₀₋₆-C(=O)-OH, -(CH₂)₀₋₆-C(=O)-OR¹¹, -(CH₂)₀₋₆-C(=O)-NH₂, -(CH₂)₀₋₆-C(=O)-NHR¹¹, -(CH₂)₀₋₆-C(=O)-N(R¹¹)₂, -(CH₂)₁₋₆-O-(CH₂)₂₋₆-R¹², -(CH₂)₁₋₆-S-(CH₂)₂₋₆-R¹², -(CH₂)₁₋₆-S(=O)-(CH₂)₂₋₆-R¹², -(CH₂)₁₋₆-S(=O)₂-(CH₂)₂₋₆-R¹², -(CH₂)₁₋₆-NH-(CH₂)₂₋₆-R¹², -(CH₂)₁₋₆-N-{(CH₂)₂₋₆-R¹²}₂, -(CH₂)₁₋₆-NHC(=O)-(CH₂)₂₋₆-R¹², and -(CH₂)₁₋₆-NHS(=O)₂-(CH₂)₂₋₆-R¹²; wherein

R¹¹ is independently selected from the group consisting of hydrogen, C₁-C₆-alkyl, alkenyl, or alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl; and

R¹² is selected from the group consisting of hydroxy, C₁-C₆-alkyloxy, aryloxy, heteroaryloxy, thio, C₁-C₆-alkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆-alkylsulfonyl, arylthio, arylsulfinyl, arylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, amino, mono- or di-C₁-C₆-alkylamino, mono- or diarylamino, mono- or diheteroaryl amino, N-alkyl-N-arylamino, N-alkyl-N-heteroaryl amino, N-aryl-N-heteroaryl amino, aryl-C₁-C₆-alkylamino, carboxylic acid, carboxamide, mono- or di-C₁-C₆-alkylcarboxamide, mono- or diarylcarboxamide, mono- or diheteroarylcarboxamide, N-alkyl-N-arylcarboxamide, N-alkyl-N-heteroarylcarboxamide, N-aryl-N-heteroarylcarboxamide, sulfonic acid, sulfonamide, mono- or di-C₁-C₆-alkylsulfonamide, mono- or diarylsulfonamide, mono- or diheteroarylsulfonamide, N-alkyl-N-arylsulfonamide, N-alkyl-N-heteroarylsulfonamide, N-aryl-N-heteroarylsulfonamide, urea; mono- di- or tri-substituted urea, wherein the

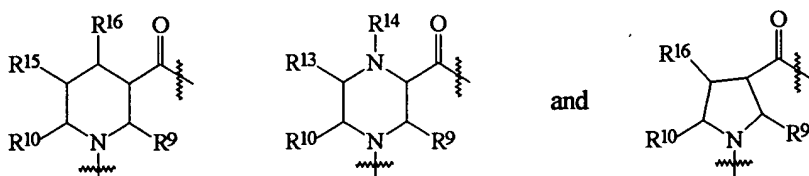
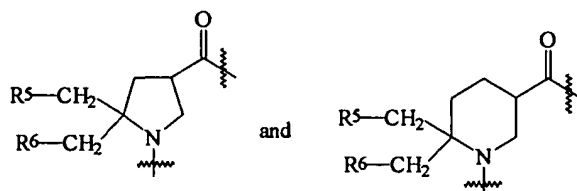
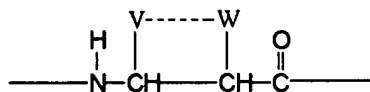
substituent(s) is selected from the group consisting of C₁-C₆-alkyl, aryl, heteroaryl; O-alkylurethane, O-arylurethane, and O-heteroarylurethane;

R¹⁴ is selected from the group consisting of hydrogen, linear, branched, or cyclic C₁-C₆-alkyl, alkenyl, or alkynyl; mono- or di- C₁-C₆ alkylamino, mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl, -S(=O)₂-(CH₂)₁₋₆-R¹¹, -C(=O)R¹¹, -S(=O)₂-(CH₂)₂₋₆R¹², and -C(=O)-(CH₂)₁₋₆-R¹²; wherein R¹¹ and R¹² are as defined above;

R¹⁵ and R¹⁶ are selected from the group listed above for R⁹, R¹⁰, and R¹³, and are further selected from the group consisting of hydroxy, C₁-C₆-alkyloxy, aryloxy, heteroaryloxy, thio, C₁-C₆-alkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆-alkylsulfonyl, arylthio, arylsulfinyl, arylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, amino, mono- or di-C₁-C₆-alkylamino, mono- or diarylamino, mono- or diheteroarylamino, N-alkyl-N-arylamine, N-alkyl-N-heteroarylamine, N-aryl-N-heteroarylamine, aryl-C₁-C₆-alkylamine, carboxylic acid, carboxamide, mono- or di-C₁-C₆-alkylcarboxamide, mono- or diarylcarboxamide, mono- or diheteroarylcarboxamide, N-alkyl-N-arylcarboxamide, N-alkyl-N-heteroarylcarboxamide, N-aryl-N-heteroarylcarboxamide, sulfonic acid, sulfonamide, mono- or di-C₁-C₆-alkylsulfonamide, mono- or diarylsulfonamide, mono- or diheteroarylsulfonamide, N-alkyl-N-arylsulfonamide, N-alkyl-N-heteroarylsulfonamide, N-aryl-N-heteroarylsulfonamide, urea; mono- di- or tri-substituted urea, wherein the substituent(s) is selected from the group consisting of C₁-C₆-alkyl, aryl, heteroaryl; O-alkylurethane, O-arylurethane, and O-heteroarylurethane, **provided that R¹⁵ and R¹⁶ are not simultaneously hydrogen**;

and

each "Y" is ~~independently variable and is~~ a single bond ~~or a reverse-turn moiety~~; and



wherein V and W are combined, together with the carbon atoms to which they are bonded, and independently define a substituted or unsubstituted, monocyclic or bicyclic C₃-C₁₀ cycloalkyl, cycloalkenyl or heterocyclic ring having one or more N, O or S atom(s) as the heteroatom(s);

the substituents on carbon atoms of the rings being independently selected from the group consisting of linear, branched, or cyclic C₁-C₆-alkyl, alkenyl, alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl, and the substituents listed above for V and W ~~when V and W are not combined~~;

the substituents on nitrogen heteroatoms of the rings being independently selected from the group consisting of hydrogen, monocyclic or bicyclic C₁-C₁₀-alkyl, alkenyl, or alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-

C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl, -S(=O)₂-R¹⁷, -C(=O)-R¹⁷, -S(=O)₂-(CH₂)_{n+1}-R¹⁸, and -C(=O)-(CH₂)_n-R¹⁸, where n = 1 to 6;

wherein R¹⁷ is independently selected from the group consisting of hydrogen, monocyclic or bicyclic C₁-C₁₀-alkyl, alkenyl, or alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl; and

wherein R¹⁸ is independently selected from the group consisting of hydroxy, linear, branched, or cyclic C₁-C₆-alkyl, alkenyl, or alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl; mono- or bicyclic heteroaryl-C₁-C₆-alkyl; C₁-C₆-alkyloxy, aryloxy, heteroaryloxy, thio, C₁-C₆-alkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆-alkylsulfonyl, arylthio, arylsulfinyl, arylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, amino, mono- or di-C₁-C₆-alkylamino, mono- or diarylamino, mono- or diheteroarylamino, N-alkyl-N-aryl-amino, N-alkyl-N-heteroaryl-amino, N-aryl-N-heteroaryl-amino, aryl-C₁-C₆-alkylamino, carboxylic acid, carboxamide, mono- or di-C₁-C₆-alkylcarboxamide, mono- or diarylcarboxamide, mono- or diheteroarylcarboxamide, N-alkyl-N-arylcarboxamide, N-alkyl-N-heteroarylcarboxamide, N-aryl-N-heteroarylcarboxamide, sulfonic acid, sulfonamide, mono- or di-C₁-C₆-alkylsulfonamide, mono- or diarylsulfonamide, mono- or diheteroarylsulfonamide, N-alkyl-N-arylsulfonamide, N-alkyl-N-heteroarylsulfonamide, N-aryl-N-heteroarylsulfonamide, urea; mono- di- or tri-substituted urea, wherein the substituent(s) is selected from the group consisting of C₁-C₆-alkyl, aryl, heteroaryl; O-alkylurethane, O-arylurethane, and O-heteroarylurethane; and

wherein R⁵ and R⁶ are independently selected from the group consisting of hydrogen, hydroxy, linear, branched, or cyclic C₁-C₁₆-alkyl, alkenyl, or alkynyl; mono-or

di- C_1 - C_{16} alkylamino; mono- or bicyclic aryl; mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl- C_1 - C_{16} -alkyl; mono- or bicyclic heteroaryl- C_1 - C_{16} -alkyl; $-(CH_2)_{0-6}-OR^7$, $-(CH_2)_{0-6}-SR^7$, $-(CH_2)_{0-6}-S(=O)-CH_2-R^7$, $-(CH_2)_{0-6}-S(=O)_2-CH_2-R^7$, $-(CH_2)_{0-6}-NR^7R^7$, $-(CH_2)_{0-6}-NHC(=O)R^7$, $-(CH_2)_{0-6}-NHS(=O)_2-CH_2-R^7$, $-(CH_2)_{0-6}-C(=O)-OH$, $-(CH_2)_{0-6}-C(=O)-OR^7$, $-(CH_2)_{0-6}-C(=O)-NH_2$, $-(CH_2)_{0-6}-C(=O)-NHR^7$, $-(CH_2)_{0-6}-C(=O)-N(R^7)_2$, $-(CH_2)_{0-6}-O-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-S-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-S(=O)-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-S(=O)_2-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-NH-(CH_2)_{2-6}-R^8$, $-(CH_2)_{0-6}-N-\{(CH_2)_{2-6}-R^8\}_2$, $-(CH_2)_{0-6}-NHC(=O)-(CH_2)_{2-6}-R^8$, and $-(CH_2)_{0-6}-NHS(=O)_2-(CH_2)_{2-6}-R^8$; wherein

R^7 is independently selected from the group consisting of hydrogen, C_1 - C_6 -alkyl, alkenyl, or alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl- C_1 - C_6 -alkyl, mono- or bicyclic heteroaryl- C_1 - C_6 -alkyl; and

R^8 is selected from the group consisting of hydroxy, C_1 - C_6 -alkyloxy, aryloxy, heteroaryloxy, thio, C_1 - C_6 -alkylthio, C_1 - C_6 -alkylsulfinyl, C_1 - C_6 -alkylsulfonyl, arylthio, arylsulfinyl, arylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, amino, mono- or di- C_1 - C_6 -alkylamino, mono- or diarylamino, mono- or diheteroaryl amino, N-alkyl-N-aryl amino, N-alkyl-N-heteroaryl amino, N-aryl-N-heteroaryl amino, aryl- C_1 - C_6 -alkylamino, carboxylic acid, carboxamide, mono- or di- C_1 - C_6 -alkylcarboxamide, mono- or diarylcarboxamide, mono- or diheteroarylcarboxamide, N-alkyl-N-arylcarboxamide, N-alkyl-N-heteroarylcarboxamide, N-aryl-N-heteroarylcarboxamide, sulfonic acid, sulfonamide, mono- or di- C_1 - C_6 -alkylsulfonamide, mono- or diarylsulfonamide, mono- or diheteroarylsulfonamide, N-alkyl-N-arylsulfonamide, N-alkyl-N-heteroarylsulfonamide, N-aryl-N-heteroarylsulfonamide, urea; mono- di- or tri-substituted urea, wherein the substituent(s) is selected from the group consisting of C_1 - C_6 -alkyl, aryl, heteroaryl; O-alkylurethane, O-arylurethane, and O-heteroarylurethane;

wherein R^9 , R^{10} , and R^{13} are independently selected from the group consisting of hydrogen, linear, branched, or cyclic C_1 - C_6 -alkyl, alkenyl, or alkynyl; mono- or di- C_1 - C_6 alkylamino, mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5

heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl, $-(CH_2)_{1-6}-OR^{11}$, $-(CH_2)_{1-6}-SR^{11}$, $-(CH_2)_{1-6}-S(=O)-CH_2-R^{11}$, $-(CH_2)_{1-6}-S(=O)_2-CH_2-R^{11}$, $-(CH_2)_{1-6}-NR^{11}R^{11}$, $-(CH_2)_{1-6}-NHC(=O)R^{11}$, $-(CH_2)_{1-6}-NHS(=O)_2-CH_2-R^{11}$, $-(CH_2)_{0-6}-C(=O)-OH$, $-(CH_2)_{0-6}-C(=O)-OR^{11}$, $-(CH_2)_{0-6}-C(=O)-NH_2$, $-(CH_2)_{0-6}-C(=O)-NHR^{11}$, $-(CH_2)_{0-6}-C(=O)-N(R^{11})_2$, $-(CH_2)_{1-6}-O-(CH_2)_{2-6}-R^{12}$, $-(CH_2)_{1-6}-S-(CH_2)_{2-6}-R^{12}$, $-(CH_2)_{1-6}-S(=O)-(CH_2)_{2-6}-R^{12}$, $-(CH_2)_{1-6}-S(=O)_2-(CH_2)_{2-6}-R^{12}$, $-(CH_2)_{1-6}-NH-(CH_2)_{2-6}-R^{12}$, $-(CH_2)_{1-6}-N-\{(CH_2)_{2-6}-R^{12}\}_2$, $-(CH_2)_{1-6}-NHC(=O)-(CH_2)_{2-6}-R^{12}$, and $-(CH_2)_{1-6}-NHS(=O)_2-(CH_2)_{2-6}-R^{12}$; wherein

R^{11} is independently selected from the group consisting of hydrogen, C₁-C₆-alkyl, alkenyl, or alkynyl; mono- or bicyclic aryl, mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl; and

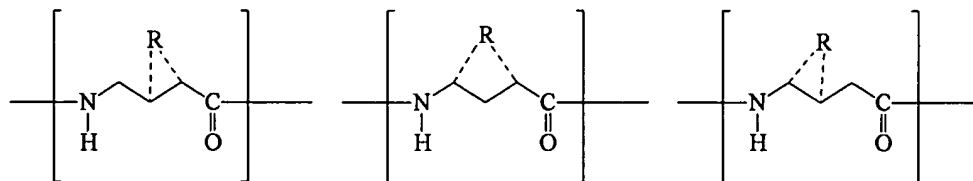
R^{12} is selected from the group consisting of hydroxy, C₁-C₆-alkyloxy, aryloxy, heteroaryloxy, thio, C₁-C₆-alkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆-alkylsulfonyl, arylthio, arylsulfinyl, arylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, amino, mono- or di-C₁-C₆-alkylamino, mono- or diarylamino, mono- or diheteroaryl amino, N-alkyl-N-arylamino, N-alkyl-N-heteroaryl amino, N-aryl-N-heteroaryl amino, aryl-C₁-C₆-alkylamino, carboxylic acid, carboxamide, mono- or di-C₁-C₆-alkylcarboxamide, mono- or diarylcarboxamide, mono- or diheteroarylcarboxamide, N-alkyl-N-arylcarboxamide, N-alkyl-N-heteroarylcarboxamide, N-aryl-N-heteroarylcarboxamide, sulfonic acid, sulfonamide, mono- or di-C₁-C₆-alkylsulfonamide, mono- or diarylsulfonamide, mono- or diheteroarylsulfonamide, N-alkyl-N-arylsulfonamide, N-alkyl-N-heteroarylsulfonamide, N-aryl-N-heteroarylsulfonamide, urea; mono- di- or tri-substituted urea, wherein the substituent(s) is selected from the group consisting of C₁-C₆-alkyl, aryl, heteroaryl; O-alkylurethane, O-arylurethane, and O-heteroarylurethane;

R^{14} is selected from the group consisting of hydrogen, linear, branched, or cyclic C₁-C₆-alkyl, alkenyl, or alkynyl; mono- or di- C₁-C₆ alkylamino, mono- or bicyclic aryl,

mono- or bicyclic heteroaryl having up to 5 heteroatoms selected from N, O, and S; mono- or bicyclic aryl-C₁-C₆-alkyl, mono- or bicyclic heteroaryl-C₁-C₆-alkyl, -S(=O)₂-(CH₂)₁₋₆-R¹¹, -C(=O)R¹¹, -S(=O)₂-(CH₂)₂₋₆R¹², and -C(=O)-(CH₂)₁₋₆-R¹²; wherein R¹¹ and R¹² are as defined above;

R¹⁵ and R¹⁶ are selected from the group listed above for R⁹, R¹⁰, and R¹³, and are further selected from the group consisting of hydroxy, C₁-C₆-alkoxy, aryloxy, heteroaryloxy, thio, C₁-C₆-alkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆-alkylsulfonyl, arylthio, arylsulfinyl, arylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, amino, mono- or di-C₁-C₆-alkylamino, mono- or diarylamino, mono- or diheteroarylamino, N-alkyl-N-arylamino, N-alkyl-N-heteroarylamino, N-aryl-N-heteroarylamino, aryl-C₁-C₆-alkylamino, carboxylic acid, carboxamide, mono- or di-C₁-C₆-alkylcarboxamide, mono- or diarylcarboxamide, mono- or diheteroarylcarboxamide, N-alkyl-N-arylcarboxamide, N-alkyl-N-heteroarylcarboxamide, N-aryl-N-heteroarylcarboxamide, sulfonic acid, sulfonamide, mono- or di-C₁-C₆-alkylsulfonamide, mono- or diarylsulfonamide, mono- or diheteroarylsulfonamide, N-alkyl-N-arylsulfonamide, N-alkyl-N-heteroarylsulfonamide, N-aryl-N-heteroarylsulfonamide, urea; mono- di- or tri-substituted urea, wherein the substituent(s) is selected from the group consisting of C₁-C₆-alkyl, aryl, heteroaryl; O-alkylurethane, O-arylurethane, and O-heteroarylurethane, **provided that R¹⁵ and R¹⁶ are not simultaneously hydrogen**; and

wherein the cyclically-constrained γ -amino acid residues are selected from the group consisting of:



wherein R, together with the carbons to which it is attached, and further together with the β -position carbon in the γ -amino acid backbone where appropriate, independently

defines a substituted or unsubstituted, monocyclic or bicyclic C₃ to C₁₀ cycloalkyl, cycloalkenyl, or heterocycle moiety, the heterocycle moiety having 1, 2, or 3 heteroatoms selected from the group consisting of N, S, and O; and

each "Y" is ~~independently variable and is~~ a single bond ~~or a reverse-turn moiety~~; and

~~each~~ "A" is independently selected from the group consisting of hydrogen, ~~hydroxy, and~~ an amino-terminus protecting group, and "A' " is selected from the group consisting of hydroxy and a carboxy-terminus protecting group; and

each "a," "c," and "d" is an independently variable positive integer, and wherein "a" + "c" > 3; ~~and or~~ salts thereof.

7. (CANCELED)

8. (ORIGINAL) The compound of Claim 6, wherein at least one of X or Z is a cyclically-constrained β-amino acid residue wherein V and W, and the carbon atoms to which they are bonded, define a substituted or unsubstituted C₄ to C₆ cycloalkyl, cycloalkenyl, or heterocyclic ring having one nitrogen atom as the sole heteratom.

9. (ORIGINAL) The compound of Claim 6, wherein at least one of X or Z is a cyclically-constrained β-amino acid residue wherein V and W, and the carbon atoms to which they are bonded, define a substituted or unsubstituted cyclopentyl, cyclohexyl, pyrrolidinyl, or piperdiny ring.

10. (CANCELED)

11. (WITHDRAWN and CURRENTLY AMENDED) A method of probing, disrupting, or mimicking binding interactions between two protein molecules or fragments thereof, the method comprising:

in an *in vivo*, *in vitro*, or *ex vivo* reaction between the two proteins,

- (a) introducing to the reaction an unnatural polypeptide compound according to ~~Claim 3~~ Claim 4; and then
- (b) quantifying any effect of the added compound from step (a) on thermodynamic or kinetic parameters of the binding interaction between the two protein molecules or fragments thereof.

12-14. (CANCELED)